

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A method for hiding authentication data within a multimedia data stream having a first media channel and a second media channel, the method comprising the steps of:

obtaining a first set of authentication data;

aid
said first set of authentication data being based on data contained in the first media channel; and

obtaining a second set of authentication data;

said second set of authentication data being based on data contained in the second media channel;

hiding the first set of authentication data in the second media channel; and

hiding the second authentication data in the first media channel.

2. (Original) The method of claim 1 further including the steps of:

defining a first subset of authentication data;

hiding the first subset in a first region of the second media channel, the first region having a first data hiding capacity;

defining a second subset of authentication data; and

hiding the second subset in a second region of the second media channel, the second region having a second data hiding capacity.

3. (Original) The method of claim 1 further including the step of generating an identification mark for the first media channel based on a signature of the first media channel, the identification mark defining the first set of authentication data and enabling synchronization between the first media channel and the second media channel.

4. (Original) The method of claim 1 further including the step of generating an authentication value for the first media channel, the authentication value defining the first set of authentication data.

a 5. (Original) The method of claim 4 further including the steps of:
calculating a one way hash value for the first media channel; and
mapping the hash value onto an identification mark for the first media channel.

6. (Original) The method of claim 1 further including the step of obtaining an active data stream, the active data stream having executable content and defining the first set of authentication data.

7. (Original) The method of claim 6 further including the step of obtaining a control data stream, the control data stream further defining the first set of authentication data.

8. (Original) The method of claim 7 further including the step of using two-dimensional checksum error correction to generate the first set of authentication data.

9. (Original) The method of claim 7 further including the step of using multi-dimensional checksum error correction to generate the first set of authentication data.

10. (Canceled)

al 11. (Original) The method of claim 1 further including the step of generating the first set of authentication data based on data contained in the second media channel.

12. (Original) The method of claim 11 further including the step of embedding the first set of authentication data in the first media channel.

13. (Original) The method of claim 1 wherein the multimedia data stream has a third media channel, the method further including the step of hiding the first set of authentication data in the third media channel.

14. (Original) A method for hiding an active data stream within a multimedia data stream having an audio channel and a visual channel, the method comprising the steps of:

hiding a first subset of the active data stream in the visual channel; and
hiding a second subset of the active data stream in the audio channel.

15. (Original) The method of claim 14 further including the steps of:

hiding executable content in the visual channel, the executable content defining the first subset; and

al hiding a control data stream in the audio channel, the control data stream defining the second subset.

16. (Original) The method of claim 15 further including the step of hiding error correction data in the audio channel, the error correction data defining the control data stream.

17. (Original) The method of claim 14 further including the steps of:

hiding the first subset of the active data stream in a first region of the visual channel; and

hiding the second subset of the active data stream in a second region of the visual channel.

18. (Original) The method of claim 17 further including the steps of:

hiding executable content in a high capacity region of the visual channel,
the executable content defining the first subset; and

hiding a control data stream in a high robustness region of the visual
channel, the control data stream defining the second subset.

19. (New) The method of claim 1, wherein the multimedia data stream has a
third data channel, the method further including the steps of:

obtaining a third set of authentication data;

al said third set of authentication data being based on data contained in the
third media channel;

hiding the third set of authentication data in the first media channel and
the second media channel; and

hiding the first set of authentication data and the second set of
authentication data in the third media channel.

20. (New) The method of claim 19, wherein the multimedia data stream is a
video data stream, the first data channel is a video channel, the second data channel is
an audio channel, and the third data channel is a text channel, the method further
comprising the step of synchronously hiding authentication data obtained from each
data channel of the multimedia data stream in every other data channel of the
multimedia data stream.

a 21. (New) The method of claim 1, further comprising the step of synchronously hiding authentication data obtained from all data channels of the multimedia data stream in every, individual data channel of the multimedia data stream.
